ABSTRACT

Desy Meliawati. (2020). ***Mathematical Representation Ability and Self-efficacy through Realistic Mathematics Education (RME) Approach.***

The ability of mathematical representation and self-efficacy of students in Indonesia is still relatively low. One approach that has the opportunity to improve the ability of mathematical representation and self-efficacy of students is the RME approach. This study aims to: (1) Know how the ability of mathematical representation through learning with the RME approach; (2) Knowing how self-efficacy through learning with the RME approach; (3) Knowing how the mathematical representation ability and self-efficacy are related. This type of research is included in the category of library research. The approach used in this research is qualitative research. Data collection techniques used are editing, organizing, and finding. Data analysis conducted in this research is inductive and comparative. The results obtained several conclusions, namely: (1) The ability of students' mathematical representation can be increased through learning with the RME approach, even increasing students' mathematical representation ability can be significantly better in learning with the RME approach compared to learning with conventional approaches; (2) Self-efficacy of students can be increased through learning with the RME approach, even the increase in student self-efficacy can be significantly better in learning with the RME approach compared to learning with conventional approaches; (3) The ability of students' mathematical representation is directly proportional to the students' self-efficacy, the level of students' mathematical representation ability is in line with the level of students' self-efficacy.

Keywords*: Mathematical Representation Ability, Self-efficacy, Realistic Mathematics Education (RME) Approach*